

Volume 3

Issue 1

Januaru 1985 \$1.00

GUIDE

Perp. Cal. (cont) Tas. Two Ref. Guide Jungle Jim: Display

Letters to Timelinez Computer Calendar **N/L** Exchange

REF

Stringy Floppy Rev. Compuserve Buide. Rev. **Test-Bit Subroutine** 

# I M E E N

\* DIRECTIONS \* = MOVE FORWARD ONE MONTH

= MOVE BACK ONE MONTH

8 = MOVE FORWARD ONE YEAR

5 = MOUE BACK ONE YEAR

(SPACE BAR) = DIRECTIONS

OR ENTER NEW MONTH & YEAR

USE (#) KEY TO LPRINT MONTH

ENTER THE MONTH & YEAR DESIRED

SEP 1984

8		Ē		ũ	5	8
2	3	4	5	5	7	8
Э	10	11	12	13	14	15
F16	17	18	19	E 20	21	22
23	24	525	25	27	28	25
30						

## Happy New Year!

Welcome to 1985! As the new year looks to be another year of suprises here is some news from the vine:

We all hope Rita is doing well after her stay in the hospital. Join me in wishing her a healthy new year.

The East Bay group is looking for a new President. If you are interested, come to the next meeting and let your voice be heard!

# Π

# REGULAR CONTROLS

ERENC

EDIT CAPS LOCK HELP MENU CAPITALS LOCKED ENTER RETURN (NEXT LINE) CURSOR MOVEMENT CURSOR BY WORD LEFT CURSOR BY WORD RIGHT **ARROUS** TRU VIDEO INV VIDEO DELETE DELETE CHARACTER DELETE LINE INSERT LINE/CHARACTR NOT MOVE LINE TO LEFT MOVE LINE TO RIGHT CENTER LINE < = > =  $\langle \cdot \rangle$ GO TO END OF TEXT GO TO START OF TEXT OR AT SCROLL DOWN TO THEN REFORM PARAGRAPH STEP

TO SUZLDZPRNT MENU

# EXTENDED CONTROLS

STOP

EXTENDED CU	INTRULS
EDIT ARROUS	HELP MENU CURSOR MOVEMENT
F G	FAST SCROLL DOWN FAST SCROLL UP
f D S	SET LEFT MARGIN SET RIGHT MARGIN RESET NORMAL MARGINS
C R	CHANGE WINDOW REPLACE OR FIND TEXT
I U E	INSERT MODE: ON/OFF UORD-URAP: ON/OFF RIGHT JUSTFY: ON/OFF
H	JUSTIFY LINE UNJUSTIFY LINE
8 ) <b>M N</b>	MARK TEXT BEGINNING MARK TEXT END MOVE TEXT COPY TEXT
F F	LARGE PRINTING: ON LARGE PRINTING: OFF PRINT TEXT

95

CLEAR TEXT FILE

JAN 1985

W.d.9.



You can have more fun with your 1000 or 1500 if you learn how the machine works. For example, by learning how information is stored inside the computer, you can learn how to change the information directly to get the results you want.

This month I continue my discussion of the "display file". I hope you have as much fun as I do making the computer do things which are unconventional, including self analysis!

Display File—Storage Form In memory there is an area known as the display file. It holds the codes for the characters which appear on the TV or monitor screen. The display file is stored according to strict rules. If these rules are not followed while the display file is being modified, the computer may lose your program.

The display begins at D\_FILE. D\_FILE is a system variable which holds the start address of the display file. The first character of the display file is always an ENTER (code = 118). From here, there are two ways the display file can be stored.

If you have fewer than 3.25K bytes of RAM (3328 bytes) then each line of display file will vary in length. There must always be an ENTER character

at the end of the line. There are 24 lines in the display. Each byte in the display file holds the code of the character to be printed at that spot in the display. Try this:

5 PRINT "JIM"

10 LET DFILE=PEEK 16396+256\*PEEK 16397

20 FOR I=DFILE TO DFILE+20

30 PRINT PEEK I

40 NEXT I

Notice the 118's which mark the ends of lines on your screen. Also notice how the screen is constantly being changed as you run a program. This means your display file is expanding and contracting as you PRINT and CLS. If you have more than 3.25K and want to try this, then POKE 16389,72; press NEW ENTER and then enter the program.

If you have more then 3.25K (3327 bytes) memory, then the display file is stored differently. Now you have enough room so that the computer "expands" your display file to the maximum by adding spaces to all the lines. Each line has 32 bytes, then ends with an ENTER (118). Try this:

10 PRINT "JIM"
20 LET DFILE=PEEK 16396+256\*PEEK 16397
30 FOR I=DFILE TO DFILE+100
40 PRINT PEEK I;"[]"
50 NEXT I

Note: [] enclosed is displayed in reverse video.

Notice all the spaces. Since each line is kept at 32 characters across plus the ENTER(118) character, the display file for machines with more than 3.25K remains a fixed size: the ENTER character at the start of the file, then 24 lines of 32+1 (ENTER) characters. This uses 1+24(32+1) = 792 bytes. The display file always takes up 792 bytes. However, it still moves around in memory each time you change a line in your program. See Memory Map. Knowing where your display file is and how it is stored is essential if you want to do Assembly language programming.

Copies of <u>The Timex/Sinclair User's Encyclopedia</u> are available for \$13.00 (includes postage and handling) from Jim March, 3216 Partridge Ave., Oakland, Ca., 94605 or for \$14.95 plus tax at bookstores (including Stacey's in Palo Alto and San Francisco).

#### HARDWARE REVIEW

TYPE:

A & J MODEL 2000 STRINGY FLOPPY

PURPOSE: FROM:

Mass Storage Device Knighted Computers 707 Highland Street Fulton, NY 13069 PH. 315-593-8219

For some reason my programs always use all of the 38K RAM on my TS 2068 computer so I looked forward to the arrival of the A & J Micro Drive which I purchased for \$203.00, delivery included. Since then, I have found it could be bought for about \$30.00 less at Pheonix Enterprises, 1788 N. Dupont Hywy. #17, Dover, Delaware 19981 (PH. 302-734-8179). In any event, this Micro Drive and interface is far cheaper than a disc drive and operates at 11,400 BAUD. I can load a 38K program in 45 seconds which is about 1/4 the time it took me using a cassette recorder. You can VERIFY your SAVES, SAVE CODE, SAVE DATA, everything else that you can do with a cassette recorder.

The interface plugs into the back of the TS 2068 and has convenient 18" long ribbon. You can piggyback your Modem and TS 2040 printer onto the interface.

CAUTION, do not connect your TS printer to the edge connector on top of the interface. Apparently, this port was meant for a Centronics printer and requires additional hardware to work (See Page 5, TSS NEWSNOTES DEC. 1984). The A & J Manual is easily understood, however, it does not tell you anything about the printer port. You can modify your programs in less than a minute to utilize the Stringy Floppy and it does not use any of your RAM. Knighted Computers also enclosed some additional information on how to convert auto start programs as well as Tom Wood's Pro/file so they can be SAVED.

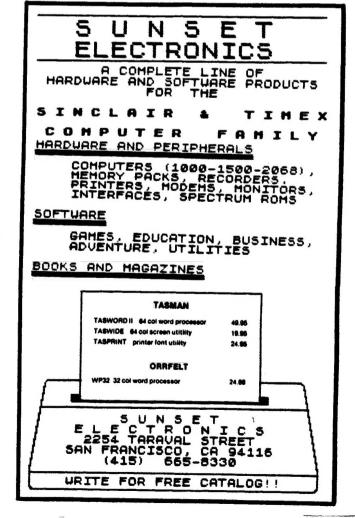
This unit comes with five wafers which have a capacity of 14, 28, 49, 70 and 85K. I prefer the 35' wafers which can store 49K and can be purchased for \$4.25 each. I think someone can run a mini-BBS using the 62' wafer that stores 85K.

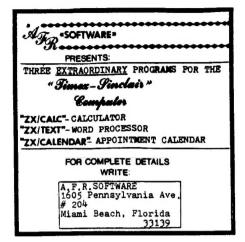
The bad news is I could not get the Floppy to work after I installed a Spectrum ROM chip. The Manual does not tell us the source code and maybe someone could figure out how to make this work.

I couldn't help but to compare this Micro Drive with the Stringy Floppy's from C.A.I. Instruments I have been using on my TS 1000 for two years. They are not interchangeable and the Model 2000 does not require you to put a lot of POKE's and USR calls in your program to make it work.

The unit has a 90 day warranty and I would strongly recommend its purchase.

Phil McConaghey, P.E. Pembroke Pines, FL 33023





200 REM
201 REM
202 REM
203 REM
300 REM \*\*\*A NEW HELPFUL HINT\*\*
302 REM
304 REM \*\*\*2068/SPECTRUM SCROLL\*

\*
306 REM
310 REM THE TS1000 SCROLL COMMA
ND CAN BE DUPLICATED ON THE 2068
WITH: RANDOMIZE USR 2361.
312 REM
320 REM THE ZX81 SCROLL COMMAND
CAN BE DUPLICATED ON SPECTRUM WITH: RANDOMIZE USR 3582

## Perpetual Calendar Program

In the November issue of Timelinez we printed the Timex Perpetual Calendar program on page 86. However, we forgot to print the lines of the program after line 460. So, if you will bear with us, here is the whole program.

[Thanks to Jay Brockman, 713 San Juan #3, Sunnyvale, CA. 94086, for sharing this program with us]. Here's something special for you to do. A calender. A special TIMEX perpetual calender that will mark all the meeting dates in this area.

I needed one for my TS2068 so I keyed one in. The formulas I got from someplace else, but the print formatting is my own.

When the program signs on, there is only one option, and that is to key in a month and year such as -JAM1984- with no spaces. The computer must be in the upper case mode.

After you have keyed in the month, you must press ENTER, then the month of your choice will be dislplayed. When the month is on the screen you then have 5 options. You may, with with the arrow keys advance a month, go back a month, advance a year, or go back one year. The 38 key will COPY the screen for you.

For those that don't want to key this in, a copy will be avaiable to you from me for a measly \$3.50. Add .50 for mail order.

In LINE 460, the SMINTF should be in inverse, use the shift 4 before, and shift 3 after each letter with three spaces at the beginning and 3 spaces between each letter. In LINEs 490 thru 495, the spaces within the ""has to be the GRAPHIC shifted 8.

1# REM (c) 1984 BY JAY K BROCKH
AN Version 4.#
29 RESTORE
3# CLS: DIM H(7): DIM N\$(12,3)
: DIM D(12): DIM A\$(15)
31 LET 1=#
32 FOR J=1 TO 7
33 READ H(J)
34 NEXT J
35 DATA 3,7,11,15,19,23,27
4# FOR a=1 TO 12
5# READ n\$(a),d(a)
6# NEXT a
7# DATA "JAN",31,"FEB",28,"MAR"

76 DATA "JAN",31,"FEB",28,"MAR",31,"APR",30,"MAY",31,"JUN",30,"JUL",31,"AUS",31,"SEP",36,"OCT",31,"NOV",36,"DEC",31

# NEW LIFE FOR YOUR TS2068?

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166 CLS : PRINT TAB 16:"T I M E X": PRINT TAB 5:" ( PERPETU A L >": PRINT TAB 5:" ( C A L E N D A R >": PRINT : PRINT TAB 7; " DIRECTIONS "

120 PRINT "7 = MOVE FORWARD ONE MONTH": PRINT

134 PRINT "6 = NOVE BACK ONE HON TH": PRINT

140 PRINT "8 = MOVE FORWARD ONE YEAP": PRINT

15# PRINT "5 = HOVE BACK ONE YEA R": PRINT

168 PRINT " (SPACE BAR) = DIRECT IONS": PRINT

176 PRINT "OR ENTER NEW MONTH & YEAR": PRINT

188 PRINT "USE (8) KEY TO LPRINT MONTH\*

185 PRINT : PRINT "ENTER THE HON TH & YEAR DESIRED"

196 IMPUT MS: LET Y=VAL MS (4 TO

266 FOR X=1 TO 12

218 IF MS(1 TO 3)=MS(X) THEN LE T M=1

226 NEXT X

240 IF Y(1 THEN 60 TO 30

258 LET D=1

26# LET C=INT ((Y-1)/16#)

27# LET D=D+C436524

286 LET D=D+INT (C/4)

296 LET N= (Y-1)-C1166

366 LET D=D+N\$365

316 LET D=D+INT (N/4)

328 IF Y/188() INT (Y/188) THEN 60 TO 34#

330 IF Y/400()INT (Y/400) THEN 60 TO 360

340 IF Y/4<>INT (Y/4) THEN 60 T 0 360

356 LET L=1

360 IF M=1 THEN GO TO 418

378 FOR I=1 TO M-1

386 LET D=D+D(1)

39# 1F 1=2 THEN LET D=D+L

466 NEXT I

418 LET F=D-78INT (D/7)+1

448 IF M<>2 THEN LET L=8

445 CLS : PRINT "-----

458 PRINT TAB 11:NS(N); " ":Y 460 PRINT : PRINT " S N T . W T F S'

475 LET J=F: LET K=#: LET AA=F: LET PO=#: LET PP=#

476 IF AA=1 THEN LET PO=1: LET K=1

477 IF AA=2 OR AA=3 OR AA=4 OR A A=5 THEN LET PP=1

486 FOR D=1 TO D(N)+L

496 IF (k=3 AND j=1) THEN PRINT INVERSE 1: INK 2: TAB 6: P":d : INVERSE 6:: LET j=j+1: 60 TO 5

491 IF PP=# THEN IF (k=3 AND j= 5) THEN PRINT INVERSE 1: TAB 17 :" E":d: INVERSE 6:: LET j=j+1: 60 TO 566

492 IF PO=# THEN IF (k=4 AND j= 3) THEM PRINT INVERSE 1; TAB 9; " S":d: INVERSE #:: LET j=j+1: 6 0 TO 500

493 IF PO=1 THEN IF (K=5 AND J= 3) THEN PRINT INVERSE 1: TAB 9; " S";D; INVERSE #;: LET J=J+1: 6 0 TO 566

494 IF PP=1 THEN IF (K=2 AND J= 5) THEN PRINT INVERSE 1: TAB 17 :" E":D: INVERSE 0:: LET J=J+1: 60 TO 566

495 IF (PO=1 AND D(M)=36) THEN IF (K=4 AND J=3) THEN PRINT IN VERSE 1; TAR 9; S";D; INVERSE 6; : LET J=J+1: 60 TO 596

496 PRINT TAB h(j);d;

497 LET j=j+1: IF j=8 THEN LET J=1: PRINT : PRINT : LET k=k+1 498 IF PO=1 THEN IF K=6 THEN L ET K=#

499 IF PO=# THEN IF K=5 THEN L ET K=4

566 IF (D+F-1)/7(>INT ((D+F-1)/7 ) THEN GO TO 520

520 MEXT D

525 PRINT : PRINT "-----

-----: PRINT : PR

53# LET L=#

550 LET W=0: LET X=0: LET Z=0 565 IF IN 63486=27 THEN 60 SUB

57# IF IN 61438=15 THEN GO TO 7

14

588 IF IN 61438=23 THEN 60 TO 7

598 IF IN 63486=15 THEN LET Y=Y -1: 60 TO 230

688 IF IN 61438=27 THEN LET Y=Y +1: 60 TO 236

610 IF IN 32766=30 THEN SO TO 1

626 60 TO 565

710 LET M=M-1

720 IF N=0 THEN LET Y=Y-1: LET

M=12

73# 60 TO 23#

746 LET N=H+1

75# IF M=13 THEN LET Y=Y+1: LET

M=1

76# 60 TO 23#

866 COPY : RETURN



The reason I am writing is because of a few changes to the RIVER CITIES SWART BOS. First, we just acquired a long hard-disk for the system, giving us almost unlimited room to make RIVER CITIES the BEST board in the United States!

About a month ago we had the system crash because of a power surge. This made us rebuild the system from scratch. However, this gave us the appertunity to make the board EVEN BETTER! We took the feature we liked, and added other ideas we had, like a complete QMLINE SAMES area. Where else do you know of a board that can offer "Zork" online? Or simulate the computer scenes from "MARSAMES"?

Computer Scenes from "MASSACES"?

I took the oppertunity to make the T/S SIS better, too. I added more features to the T/S Information Center, opened a very large Dounload Section (we will even have programs for the 1000/1500 !), and monthly drawings will be held for T/S products.

products.

Now for a little bad news. Because of the expenses we have incurred running this board (2 separate phone lines, \$1000.00 for the extra hard-disk, etc.), we are going to have to ask for a small one-time Lifetime Hembership Fee. All of the money we get will go into making the board even better; none of the money will go to us. He want to make RIVER CITIES a nationally-known source for T/B users.

Bincerely.

Sincerely, BILL Janker
BILL FOTTOBOO
MOUNTAINEER SOFTHARE

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#### ANNOUNCING !!!

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The RIVER CITIES SMART BBS is a NEW bulletin board that has a Special Interest Broup (SIS) especially for Timex/Sinclair

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- A fully equipped Message Center
- (Leave messages to other T/S users around the country!)

   Bulletins with current news of interest to T/S users

   An Information Center

(with Articles, product reviews, a National list of T/B User Broups, Publications, Dealers, and more!)

And, for those with Smart Terminal software for Westridge or Byte-Back modemms

Programs that you can upload right into your computer! (For the 1000 and the 2068!)

### Dear Timelines

By now you will have had some experience with the Remaultch. an eagerly waiting for delivery on nine and have a question on it - hope you have the answer! Have you used it with the Aerce interface and have there been any problems with it? If there were problems do you have the solutions.

I'm running my 2048 on R68. When using the schematic for the R68 board in the 2048 Tech. Manual, if everything works except the screen is doing a fast horizontal reli (and the horizontal control is inside the menitor, as it is on most of theo) I have found that changing the wiring from the negative to the positive horizontal on the board (or vice versa) will step the reli.

Is there anybody out there that has had experience with both Brafist and Multi-Draw 2068 and could give a review on them?

I'm working my way through the Timez Sinclair 2068 Intermediate! Advanced Guide by Mazur and would be happy to provide Timelinez with a review if nebody else is doing so.

J. Cohen POB 1240 Mendecine, 75460



#### PROGRAM FOR THE SPORT II SOFTWARE FOR 2068 BY PHILL MECONAGIEY

Pirst enter the loading program shown First enter the loading program shown (a low). SAVE the program to tape by GOTO 9 and ENTER. Remove the tape without rewinding, and put the SMART II tape in the recorder. Load as per the instructions provided. Remove the SMART II tape and put the first casestte back in. SAVE the SMART II by entering:

SAVE "MYSTEM II" CODE 54016, 11420

(You are allowed to make one copy for your

After saving press EVIER press C and make your settings; enter phone numbers etc. have found Duplex "FULL", Parity "EVEN", MORDSIZE "7", and stop Rits "1" connects me to all MSS's. I set the Line Feed Suppression and carriage return to "OFF" and the conversion to "NONE" (see Buffer Hersi). Save the phone mambers by going to the MAIN MENU, and press S. Then press S and ENTER after starting your tape.

The next time you decide to use your modem, load the Loading Program and press RLN at the prompt, after the MINERH II is loaded, stop the tape, press EMER, S and L. Start the recorder and press EMER to load the settings and phone number

I have not been able to transmit the Buffer probably because I can't figure out what to enter for the "Prompt String".

Finally, Lines 4 and 5 of the Loading Program "clasms up" the addresses from 61714 to 63264 where the phone numbers and settings are stored. Lines 1, 11 through 13 were developed by Linda Banta of Benta software.

#### LOADING PROGRAM

LOADING PROGRAM

1 REH FLASH CLS G THEN LN ()
2 LET X=VGL "54015"
3 LOAD "CODE X
4 FOR N=VGL "61714" TO VAL "6
3264" FOR N=VGL "61714" TO VAL "6
5 POKE N,32: NEXT N: GO SUB V
7 PRINT USR X: STOP
9 SAVE "HTERH" LIME VAL "12"
10 INK 2: FLASH 3GN PI: PRINT
AT 8,4; PRESS THEN THEN "ENTE
R""": FLASH NOT PI:
11 LET p=VGL "USR (S+PEEK 2363
63630" LET Y=VGL "1
12 IF p>Y THEN BRITE 6383" LET Y=UAL "1

12 IF py THEN PRINT AT 12,8;"
PRINTER OFF"
13 IF PKY THEN PRINT AT 12,8;"
PRINTER ON"
14 90 SUB UAL "15": STOP
15 LET Z=UAL ".942": LET U=UAL 16 > FOR n = SGN PI TO U 17 BEEP Z.2+U: PAUSE 2.8: BEEP 20 NEXT n: RETURN

## SPECTRUM ROM SPECTRUM SOFTWARE

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#### JOYSTICK PORT MODIFICATION FROM THE T/S USERS GROUP OF CINCINNATI.

Well, it's been a while, but I finally brushed the dust off the table and decided to get back to work. At the October meeting, I demonstrated a simple modification to a 2068 to allow a trakball (ATARI compatable) to work through the player 2 joystick port (Figure 1). Timex made one change in the joystick input, possibly making it an output port as well to control their microdrive. Pin 7 is shown in the Third Party manual as an select line that goes to a logical low state when a joystick input is required by a program. This is fine to drive a joystick, but doesn't work for a trakball because it expects that line to go to ground. All that you have to do to make it work is to break the trace running from pin 7 of the joystick connector and run a jumper from pin 7 to ground (Pin 29 of the Z-80 Processor will do nicely). This will not affect the joystick performance.

#### TIMELINEZ MOTE:

We have also used this modification for a CARDKEY numeric teypad,

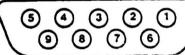
#### EDITOR'S NOTE:

If you turn the trakball over, you have a mouse!!!!

JOYSTICK CONNECTOR SIGNAL ASSIGNMENT

P/N	SIGNAL NAME	I/O PORT BIT	FUNCTION
1	DIAL	0	STICK UP
2	DIR2	1	STICK DOWN
3	DIAJ	2	STICK LEFT
	DIM4	3	STICK MIGHT
5			not word
6	BUTTON	,	PUSH BUTTON
7	SV	-	5 WOLT POWER
	READ STROAT		ADDRESS BIT 8 OR 90
9	CMD		POWER GROUND

"then Address Bit 8 is high, the READ strobe to the left joystick is driven low. then address bit 9 is high, the READ strope to the right joystick is driven low.



TS 2048 PROGRAMMING

FROM THE SINC-LINK N/L OF TORONTO, ONTARIO.

Recognizing UDS's

As you know from the manual, there are 21 User Defineable Graphic characters which can be assigned from CODE 144 to CODE 164. To show what you are doing and to keep program LISTing as clear as possible, it's best to use the CHRS function rather than shifting to the Graphics mode.

18 PRINT CHRS 144; CHRS 145; CHRS 146

It's instantly recognizable as UDG's.

UDB Loader

This routine is not in the manual but it saves a lot of typing time not using all the SIN values.

7888 FOR g=144 TO 164 (or less)
7818 FOR n=8 TO 7
7828 READ a : POKE USR CHR0 q + n,a
7838 NEXT n
7848 RESTORE : RETURN
7858 DATA.....

Each data statement contains 8 numbers per line; each number is the decimal value for the binar, bits in UBS character row. Each data statement defines one character.

Fancy Titles

Assign a string to TS less than or equal to 32 characters for the title and a value to the variable "pa" less than 22 for PRINT AT line number:

-18 LET TO = "HERE IS A PROGRAM TITLE"
28 LET pa = 18
38 GOSUB 188
48 STOP

188 LET M = LEN TS : IF M/2 < > INT (M/2) THEN LET TS = TS + " " : LET M = M +1 
118 FOR N = 1 TO M/2 : PRINT AT  $pa_1$  16-N; TS ( TO N); TS (M - N + TO ): BEEP .82.2 & N : NEXT N : RETURN

# FROM THE SUM T/S N/L OF GAINESVILLE, FL.

FLASH!
POKES FOR SPECTRUM ROM
TASWORD WITH AERCO

For those who have converted their 2068s to run with the Spectrum ROM there is good news! Joe Williamson has discovered the pokes necessary to run the Spectrum version of Tasword II with the Aerco interface.

First load the Aerco software then the Tasword II program. Est into BASIC by holding down on the 'symbol shift key and pressing STOP. Select Basic from the menuthen type in the following pokes without line numbers, pressing enter after each line.

POKE 57999,127 POKE 58004,98 POKE 58008,127

Now return to Tasword II with RUN and ENTER. Save your new version of Tasword II as offered by the same menu which got you into Basic.

-- Richard Cravy

## NEW COMPUSERVE GUIDEBOOK SAVES TIME AND MONEY FOR SUBSCRIBERS by Norm Lenfeldt

Whether you are an old hand on Compuserve or a neophyte intimidated by what appears to be an impenetrable electronic labyrinth, you will find something of value in "How To Get The Most Out Of Compuserve," a new Bantam book by Charles Bowen and David Peyton.

The authors are not Only experienced users of the giant data but 0150 veteran sysops (System Operators). Their book has Which alternate between those designed to be step-by-step guides to various sections of COMPUSETVE while you are those Which are leisurely explanations of what you have seen on your screen during the on-line sessions.

One of the ways in which this book excels over Compuserve's own publications is in its explicit directions for getting OUT of various sections of the network in an orderly fashion after you have gotten IN.

IF you are a newcomer to tele-computing, this book speed up your progress considerably by showing you how to dispense with Compuserve's timeand consuming menus as you become more adept. An especially useful feature of the book is an appendix dubbed \*On-line Survival Kit, \* Even if you On experienced Compuserve navigator YOU will .find Quick-reference listing of the most useful commands invaluable while you are on-line.

You can order this book from the on-line ordering section of Compuserve, but it is also evailable in the computer sections of major book stores.

# COMPUTER CALENDAR

# FEBRUARY 1985

- 16 California Computer Swap Alameda County Fairgrounds
- 17 Peninsula User Group (415)359-3198 1 p.m.
- 21 East Bay Z80 User Group (415)234-3310 7:30 p.m.
- 26 Silicon Valley TS User Group (408)738-2888 X4536 7 p.m.

## **MARCH 1985**

- 2-3 Computer Supermarket Show San Mateo County Fairgrounds 10 - 5pm \$7 (415)340-9113
- 17 Peninsula User Group (415)359-3198 1 p.m.
- 21 East Bay Z80 User Group (415)234-3310 7:30 p.m.
- 26 Silicon Valley TS User Group (408)738-2888 X4536 7 p.m.
- 30- The 10th West Coast Computer Apr Faire Moscone Center, SF 2 (617)965-8350

TIMES AND LOCATIONS MAY DIFFER, PLEASE CALL FIRST

## 2068 ROM Disassembly

Rumor has it that Bob Orrfelt of the Peninsula group has disassembled the 2068 ROM. His listing includes some comments and the Z80 code. How about some articles on the code? Or how a disassembly is done? What is a disassembly, anyway? How about it, Bob?



E B Z U G East Bay Z80 User Group 654 40th Street Richmond, CA 94805 (415) 234-3310 or 531 531-6566

PRESIDENT Joet Brody NEWSLETTER EDITOR Rick Link

EBZUG meets the third Thursday of each month at:

UEST BRANCH BERKELEY PUBLIC LIBRARY at the corner of University and San Pablo. Heetings start at \$2.30 pm. Bring equipment and power Strips.

UPCOHING HEETINGS

February 21, 1985 March 21, 1985 April 18, 1985



PENINSULA USER GROUP - PUG 263 Gateway No. 107 Pacifica, CA 94844 (415) 359-3198 or 333-2231

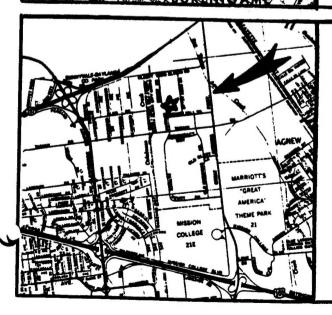
PRESIDENT George Mockridge LETTER EDITOR George Mockridge

PUG meets the third Sunday of each month at:

PENINSULA HOSPITAL, 1783 EL CAMINO, BURLINGAME. 1 pm. Heet, room on lower level. Use Morth entrance. Bring equip. & extension cords if possible.

UPCOMING MEETINGS:

February 17, 1985 March 17, 1985 April 21, 1985



Silicon Valley SINCLAIR/INCLAI

PRESIDENT RITA CAFF
NEUSLETTER EDITOR BILL MILLER

SUS/BUG meets the last Tuesday of each month at:

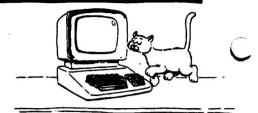
Dysan Corp. Headquarters 5201 Patrick Henry Drive Santa Clara, CA

(Please use North entrance by the loading dock)

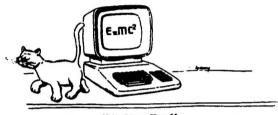
UPCOMING MEETINGS:

February 26, 1985 March 26, 1985 April 30, 1985

1 REM \*\*TEST-BIT SUBROUTINE\*\*
2 REM BY JACK DOHANY
3 REM (415) 321-7684
4 REM
5 REM THE SUBROUTINE AT 100
ALLOUS USER TO DETERMINE WHETHER
A PARTICULAR BIT OF A SPECIFIED
BYTE IS ON(1) OR OFF(0).
6 REM ADJUST LINE 110 FOR
1000/2068.
8 REM LINES 10-80 DEMONSTRATE
USE OF SUBROUTINE.
9 REM
10 CLS
20 PRINT AT 21,0; "ADDRESS: (0-6
5535) ";
30 INPUT ADDR
32 LET ADDR=INT ADDR
34 IF ADDR</br>
34 IF ADDR (0 OR ADDR)65535 THE
N GO TO 30
36 PRINT ADDR
40 PRINT "BIT: (0-7) ";
50 INPUT BIT
52 LET BIT=INT BIT
54 IF BIT<0 OR BIT>7 THEN GO T
0 SO
56 PRINT BIT
60 LET BYTE=PEEK ADDR
70 GO SUB 100
72 PRINT "LOC "; ADDR; " CONTAIN
S DECIMAL "; BYTE
74 PRINT "BIT "; BIT; " = "; TEST
76 PRINT
80 GO TO 20
97 REM
98 REM
99 REM
100 REM \*\*\*\*TEST-BIT\*\*\*\*
102 REM NEEDS BIT=0-7
104 REM GIVES TEST = 0 OR 1
105 REM
110 LET X=INT (BYTE/2†BIT)
112 REM TS1000:† = \*\*
113 REM († = RAISE TO POWER)
120 LET TEST=X-INT (X/2) \*2







"Softsmiles"



FOR TS 2068 OWNERS, HERE IS INTERESTING LITTLE PROGRAMMING TECHNIQUE. IT IS BASED UPON AN ARTICLE BY MARK FENDRICK.

10 > INPUT "ENTER SOME WORDS "; A \$ 20 INPUT #0; "ENTER ""2"" FOR S CREEN OR ""3"" FOR PRINTER "; 5 30 PRINT #5; A\$'' 40 GO TO 20

UALT GABY

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